



Supplementary Materials: Influence of Pyruvic Acid and UV Radiation on the Morphology of Silicacarbonate Crystalline Biomorphs

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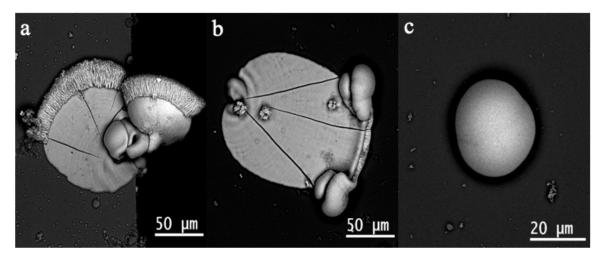


Figure S1. Scanning electron microscopy (SEM) images of silica-carbonate biomorphs synthetized with Sr. (a) Control sample without PA; (b) PA [0.01 M]; (c) PA [0.1 M].

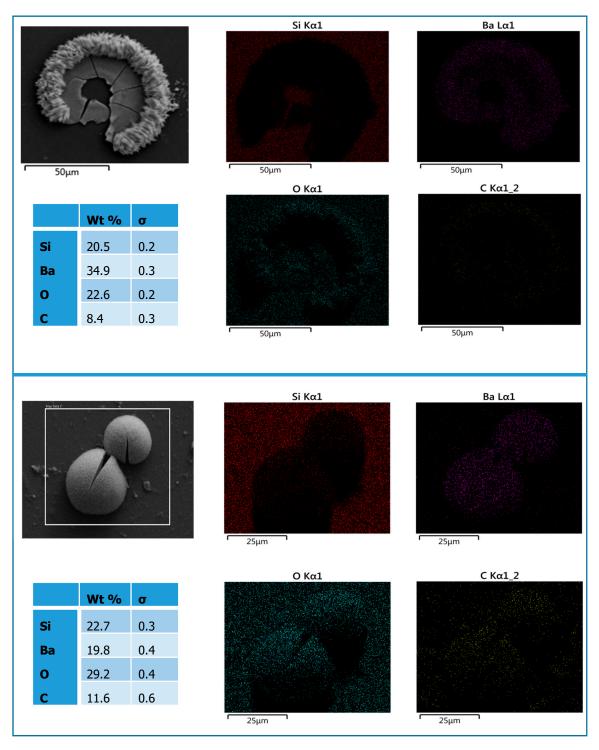


Figure S2. Energy dispersion spectroscopy (EDS) from: Top: a control sample of Ba silica-carbonate biomorph. Bottom: a Ba silica-carbonate spherulitic structure synthetized in gas-diffusion under UV radiation.

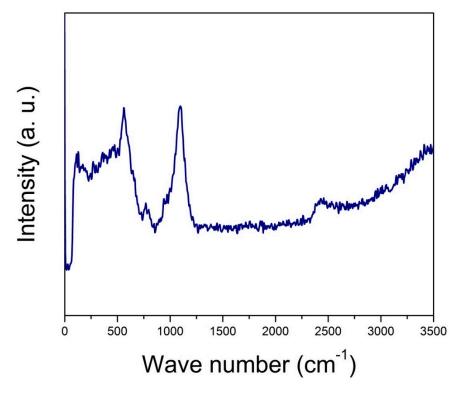


Figure S3. Raman spectrum from the glass substrate.

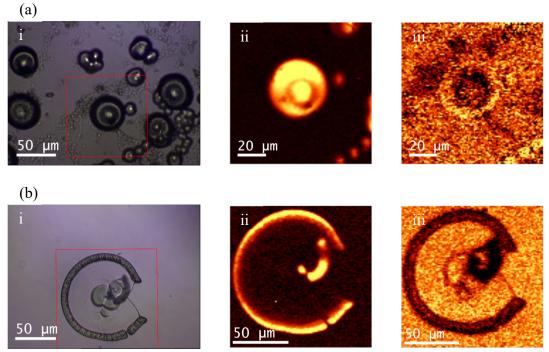


Figure S4. Confocal Raman imaging of Sr biomorphs synthetized with PA [0.1 M]. (a) Gas-diffusion method under UV radiation; (b) single-phase method under UV radiation. (i) Optical image of the structure; (ii) mapping of the SrCO₃ peak at 1070 cm⁻¹; (iii) mapping of the SiO₂ between 515 and 620 cm⁻¹.



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